

**IN THE ABSTRACT:**

Please DELETE the Abstract in its entirety and substitute the following new Abstract.

A checksum generation apparatus and method thereof. The checksum generation apparatus includes a control unit which, in response to information on a predetermined length, outputs a control signal when an amount of data corresponding to the predetermined length is received; an addition unit which receives data, performs an addition on the received data, and, in response to the control signal, outputs an addition result; and a conversion unit which converts the addition result to a checksum.